

**SAF-B03-017**  
**Remaining Sites Confirmation**  
**Sampling-Other Solid**  
**FINAL DATA PACKAGE**

**E:MAIL RESULTS TO:**

Ella Feist

N/A  
\_\_\_\_\_  
INITIAL/DATE

Mike Stankovich

N/A  
\_\_\_\_\_  
INITIAL/DATE

**MAIL COMPLETE COPY OF DATA PACKAGE TO:**

Ella Feist

H9-01

B/E  
\_\_\_\_\_  
INITIAL/DATE

Mike Stankovich

H9-02

B/E  
\_\_\_\_\_  
INITIAL/DATE

Bob Hynes

H0-18

B/E  
\_\_\_\_\_  
INITIAL/DATE

Jeanette Duncan

H9-02

B/E  
\_\_\_\_\_  
INITIAL/DATE

**COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE COVER SHEET)**

SDG

D00356

SAF-B03-017

Rad only

☒

Chem only

Rad &amp; Chem

☒ Complete

Partial

Sample J00NL5

Sample Location/Waste Site: 600-139

**RECEIVED**  
AUG 18 2003  
**EDMC**

**SUBMITTED TO:**

Joan Kessner  
Bechtel Hanford  
3350 George Washington Way, MS H0-25  
Richland, WA 99352

**REFERENCE DATA:**

Client Sample No.:	J00NL1 through J00NL5
P.O. No.:	Not Available
Sample Location:	600-139
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	03-A-2383
DCL Sample ID No.:	03-15194 through 03-15197
Sample Receipt Date:	5/19/03
Analysis Date:	5/29/03



We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were removed from the sample containers, dried, ground with a mortar and pestle, and sieved with 2-mm, 1-mm and a 0.5-mm screens before being mounted on a glass microscope slides. Each size fraction was examined under a stereomicroscope for fibrous materials. Mountings of the fibers observed and representative portions of the material were prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the portions of materials analyzed and are summarized on the attached Bulk Asbestos Analysis Data Sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

  
\_\_\_\_\_  
Anna Marie Ristich  
Analyst

  
\_\_\_\_\_  
Shawn Smythe  
Reviewer

\*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NIST.

CINCINNATI OFFICE  
4388 GLENDALE-MILFORD ROAD  
CINCINNATI, OHIO 45242-3706  
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE  
11 SANTA YORBA COURT  
NOVATO, CALIFORNIA 94945  
800 280-8071, FAX 415 893-9469

D003 531 D00356

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Bechtel Hanford  
Location: 600-139  
Set ID: 03-A-2383

Client Sample ID:	J00NL1	J00NL2	J00NL3	J00NL5	J00NL5
DCL Sample ID:	03-15194	03-15195	03-15196	03-15197 A	03-15197 B
<b>Macroscopic Examination</b>					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Heterog.	Heterog.
Color:	Brown	Brown	Brown	Brown	Grey
Texture:	Coarse Granular	Coarse Granular	Coarse Granular	Woven	Fibrs / Resins
Description:	Soil	Soil	Soil	Material	Metallic
Analysis:	PLM	PLM	PLM	PLM	Gasket PLM
<b>Asbestiform Minerals</b>					
% Chrysotile:				Trace	>10≤20
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	Trace	>10≤20
<b>Other Materials</b>					
% Cellulose:	>1≤3	>1≤3	Trace	>90≤100	
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					>20≤30
% Non Fibrous:	>90≤100	>90≤100	>90≤100	>1≤3	>40≤50

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
\_\_\_\_\_  
Anna Marie Ristich  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

5/30/03

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Bechtel Hanford

Location: 600-139

Set ID: 03-A-2383

Client Sample ID:	J00NL5	J00NL5	J00NL5
DCL Sample ID:	03-15197 C	03-15197 D	03-15197 E
<b>Macroscopic Examination</b>			
Accepted/Rejected:	Accepted	Accepted	Accepted
Homogeneity:	Heterog.	Heterog.	Heterog.
Color:	Grey	Grey / Black	Grey
Texture:	Fibrous / Resinous	Fibrous / Crumbly	Fibrous / Resinous
Description:	Gasket Backing	Debris	Gasket
Analysis:	PLM	PLM	PLM
<b>Asbestiform Minerals</b>			
% Chrysotile:	>40≤50	>10≤20	>30≤40
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	>40≤50	>10≤20	>30≤40
<b>Other Materials</b>			
% Cellulose:	>40≤50	>40≤50	>30≤40
% Fiberglass:			
% Other Fibers:			
% Resin/Binder:			>5≤10
% Non Fibrous:	>1≤3	>20≤30	>5≤10

ND = None Detected    Trace = &lt;1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.



\_\_\_\_\_  
Anna Marie Ristich  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Bechtel Hanford Inc.			CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B03-015-101		Page 1 of 1					
Collector R Fahlberg			Company Contact M Stankovich			Telephone No. 531-7620			Project Coordinator KESSNER, JH			Price Code 8B		Data Turnaround 24 Hours		
Project Designation Remaining Sites Confirmation Sampling-Soil			Sampling Location 600-139			SAF No. B03-015			Air Quality <input type="checkbox"/>							
Ice Chest No. Fed Ex Box			Field Logbook No. EL 1577			COA C17HXU671C			Method of Shipment Fed EX							
Shipped To DataChem Laboratories			Offsite Property No. N/A						Bill of Lading/Air Bill No. 82915245 5237							
POSSIBLE SAMPLE HAZARDS/REMARKS  Non-RAD Area, No Activity Report Required  Special Handling and/or Storage				Preservation		None										
				Type of Container		Whirl Pack										
				No. of Container(s)		1										
				Volume		5g										
SAMPLE ANALYSIS				Asbestos-BULK-EPA												
Sample No.		Matrix *		Sample Date		Sample Time										
J00NL1		SOIL		5.13.03		0920		X	15	94						
J00NL2		SOIL		5.13.03		0920		X	15	95						
J00NL3		SOIL		REF 5.13.03												
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS						Matrix *		
Relinquished By/Removed From		Date/Time 1430		Received By/Stored In		Date/Time 1430		Personnel not available to relinquish samples from the 3728 Ref # 1A on 5/16/03						S=Soil SE=Sediment SO=Solid SL=Sludge W = Water O=Oil A=Air DS=Drym Solids DL=Drym Liquids T=Tissue Wt=Wipe L=Liquid V=Vegetation X=Other		
P. Fahlberg R. Fahlberg		5.13.03		1A 3728		5.13.03										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
REF 1A 3728		51603 1100		SSGAL		51603 1100										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
SSGAL		51603 1100		FED EX												
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
LABORATORY SECTION		Received By		Title								Date/Time				
		DCLC		RSD								5/19/03 10:25				
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By						Date/Time						

<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>B03-015-101</b>		<b>Page 1 of 1</b>	
Collector R Fahlberg		Company Contact M Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code <b>8B</b> Data Turnaround <b>24 Hours</b>	
Project Designation Remaining Sites Confirmation Sampling-Soil		Sampling Location 600-139		SAF No. B03-015		Air Quality <input type="checkbox"/>			
Ice Chest No. <b>FED EX BOX</b>		Field Logbook No. EL 1577		COA C17HXU671C		Method of Shipment Fed EX			
Shipped To DataChem Laboratories		Offsite Property No. <b>N/A</b>				Bill of Lading/Air Bill No. <b>82915245 5237</b>			
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> Non-RAD Area, No Activity Report Required  <b>Special Handling and/or Storage</b> <i>None</i>				Preservation		None			
				Type of Container		Whirl Pack			
				No. of Container(s)		1			
				Volume		5g			
<b>SAMPLE ANALYSIS</b>				Asbestos-BULK-EPA					
Sample No.		Matrix *		Sample Date		Sample Time			
J00NL1		SOIL		5-13-03		0920		X	
J00NL2		SOIL		5-13-03		0920		X	
J00NL3		SOIL		5-15-03		1220		X	
<b>CHAIN OF POSSESSION</b>				<b>SPECIAL INSTRUCTIONS</b>				<b>Matrix *</b>	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Personnel not available to relinquish samples from the 3728 Ref # <u>3A</u> on <u>5/16/03</u>	
<i>R. Fahlberg</i>		5-15-02		<i>JF 3728</i>		5-15-03			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<i>SJ GALE</i>		51603 1100		<i>SJ GALE</i>		51603			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<i>REF 3A</i>		3728 51603 1100		<i>SJ GALE</i>		51603 1100			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		S=Soil SB=Soilment SD=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Time WI=Wipe L=Liquid V=Vegetation X=Other	
<i>SJ GALE</i>		51603 1100		<i>FED EX</i>					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<b>LABORATORY SECTION</b>		Received By		Title		Date/Time			
		<i>DR</i>		<i>DCLC</i>		<i>RLSD</i>		5/19/03 10:25	
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method		Disposed By		Date/Time			

<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>B03-017-107</b>		Page 1 of 1							
Collector R Fahlberg		Company Contact M Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9C Data Turnaround <b>24 Hours</b>							
Project Designation Remaining Sites Confirmation Sampling-Other Solid		Sampling Location 600-139		SAF No. B03-017		Air Quality <input type="checkbox"/>									
Ice Chest No. <b>FED EX BOX</b>		Field Logbook No. EL 1577		COA C17HXU671C		Method of Shipment Fed EX									
Shipped To DataChem Laboratories		Offsite Property No. <b>N/A</b>		Bill of Lading/Air Bill No. <b>829/5245 5237</b>											
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> Non-Rad Area, No Activity Report Required  <b>Special Handling and/or Storage</b> None				Preservation	None										
				Type of Container	Whirl Pack										
				No. of Container(s)	1										
				Volume	5g										
<b>SAMPLE ANALYSIS</b>				Asbestos-BULK-EPA											
Sample No.	Matrix *	Sample Date	Sample Time												
J00NL5	OTHER SOLID	5.13.03	0830	X	15197										
<b>CHAIN OF POSSESSION</b>				<b>Sign/Print Names</b>				<b>SPECIAL INSTRUCTIONS</b>				<b>Matrix *</b>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Personnel not available to relinquish samples from the 3728 Ref # <u>1A</u> on <u>5/16/03</u>				S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other			
R. Fahlberg		5.13.03		1A 3728		5.13.03 1430									
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time									
REF 1A 3728		51603 1100		SJOALD		51603 1100									
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time									
SJOALD		51603 1100		FED EX											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time									
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time									
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time									
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time									
LABORATORY SECTION		Received By		Disposal Method		Disposed By		Date/Time		Date/Time					
		DCLE		R50				5/19/03		10:25					
FINAL SAMPLE DISPOSITION															